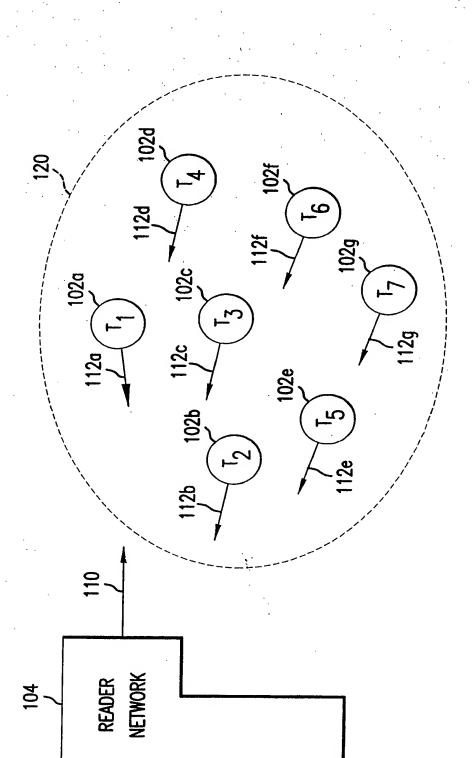
Replacement Sheet
Sheet 1 of 55
Appl. No. 10/073,000; Filed: Feb 12, 2002
Dkt No. 1689.0260000; Group Unit: 2636
Inventors: SHANKS et al.
Tel. No.: 202-371-2600
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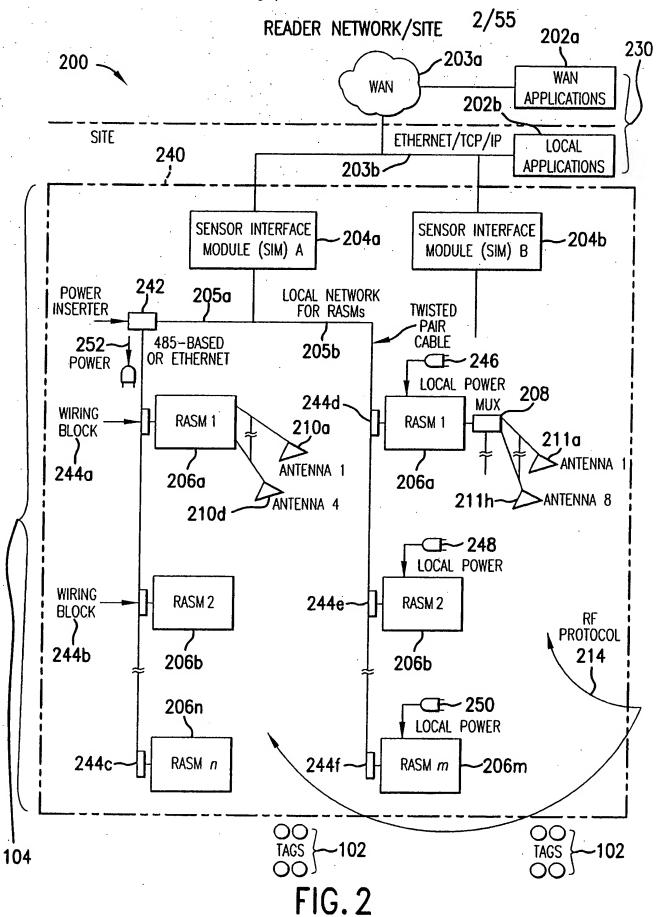


Replacement Sheet Sheet 2 of 55

Appl. No. 10/073,000; Filed: Feb 12, 2002 Dkt No. 1689.0260000; Group Unit: 2636

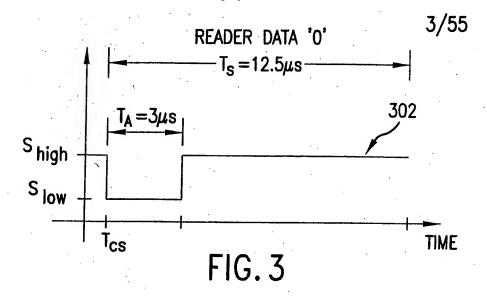
Inventors: SHANKS et al. Tel. No.: 202-371-2600

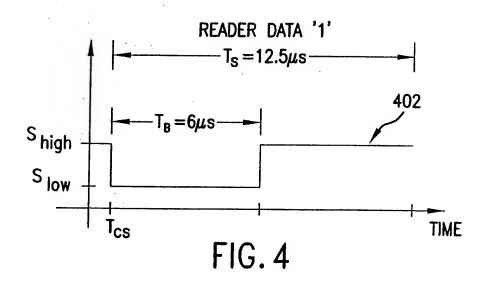
For: Method, System and Apparatus for Communicating With a RFID Tag Population

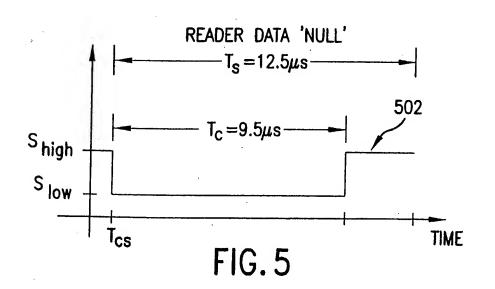


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With a RFID Tag Population

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### READER BIT 'O' WITH TAG BIT 'O'

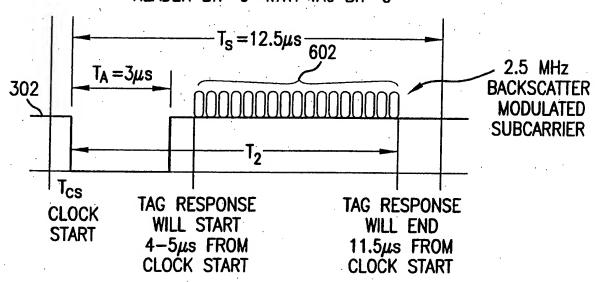


FIG. 6

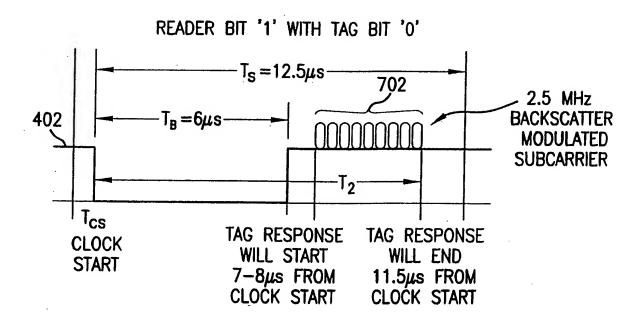


FIG. 7

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Inventors: SHANKS et al.

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## READER BIT '0' WITH TAG BIT '1'

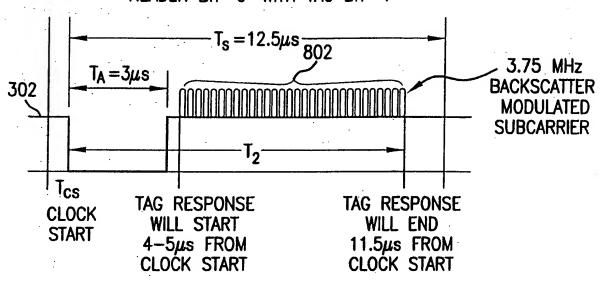


FIG. 8

#### READER BIT '1' WITH TAG BIT '1'

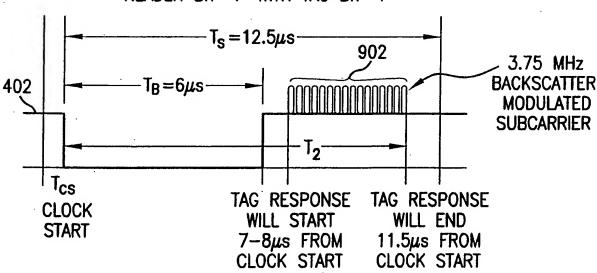


FIG. 9

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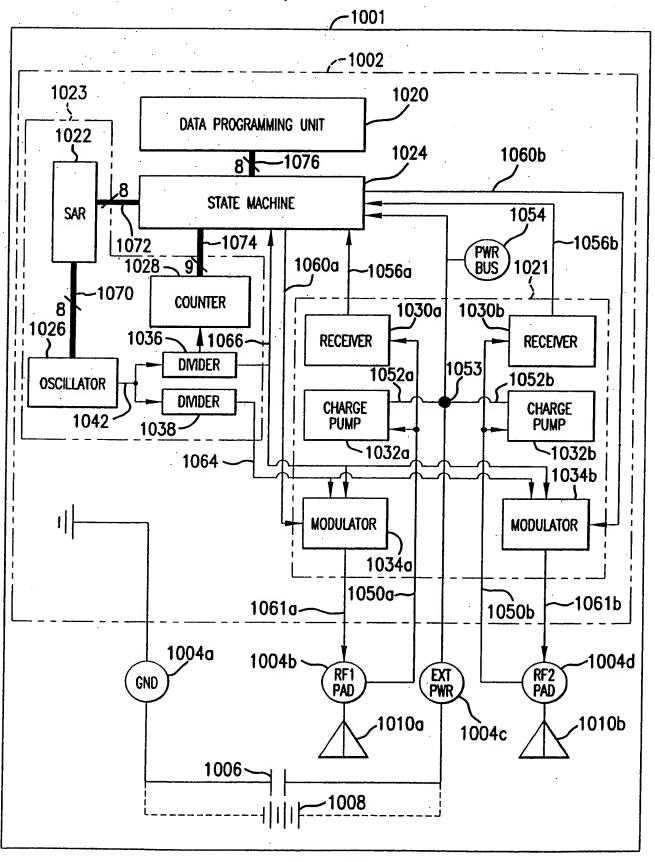


FIG. 10

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Tel. No.: 202-371-2600

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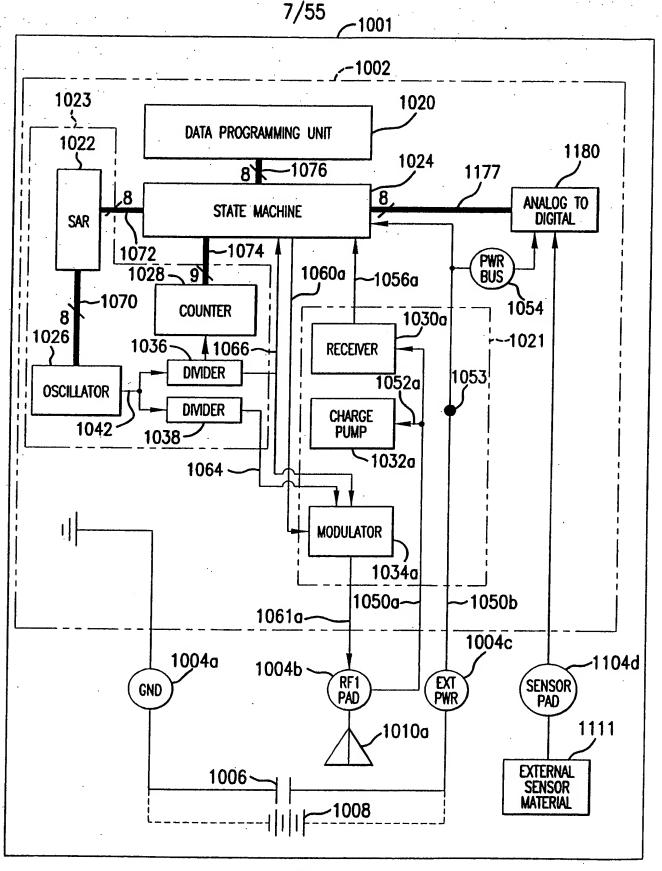


FIG. 11

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Inventors: SHANKS et al.
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With a RFID Tag Population

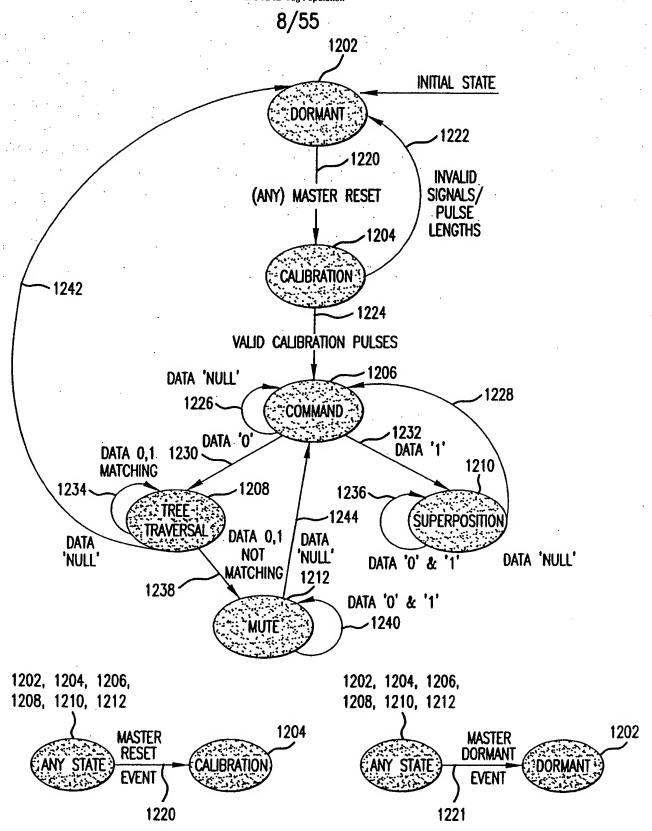
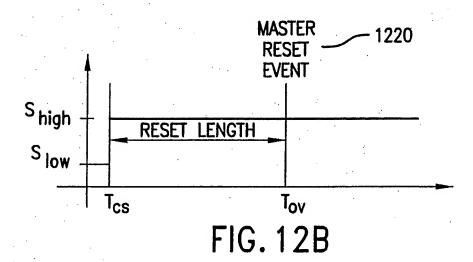
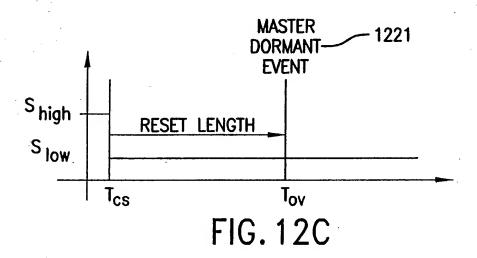
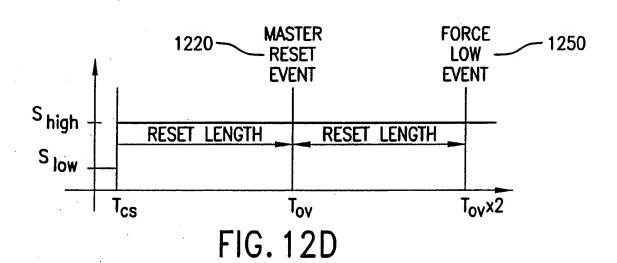


FIG. 12A

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With a RFID Tag Population







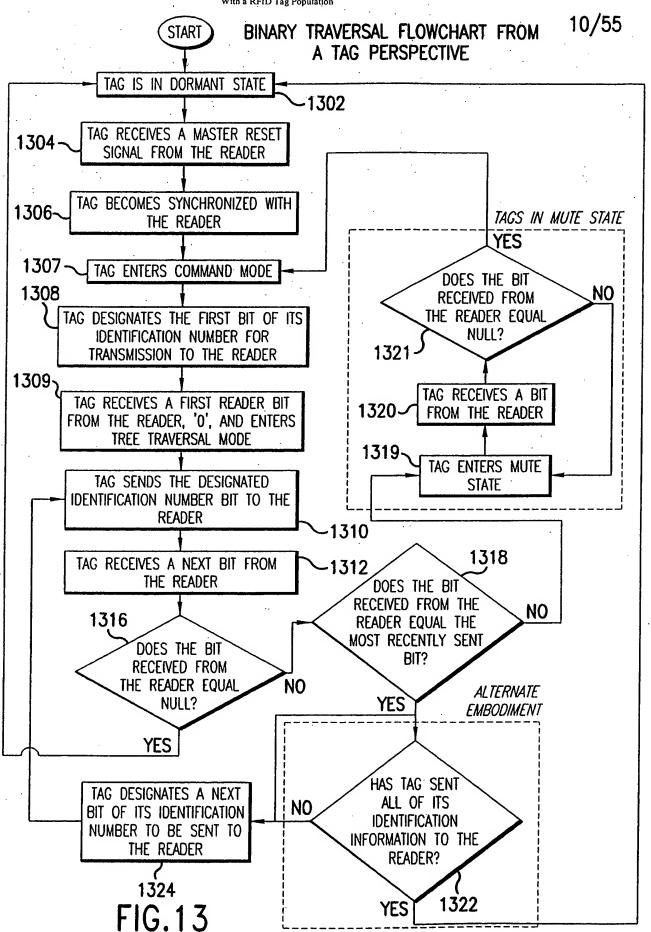
Replacement Sheet

Appl. No. 10/073,000; Filed: Feb 12, 2002 Dkt No. 1689.0260000; Group Unit: 2636 Inventors: SHANKS et al.

Tel. No.: 202-371-2600

For: Method, System and Apparatus for Communicating

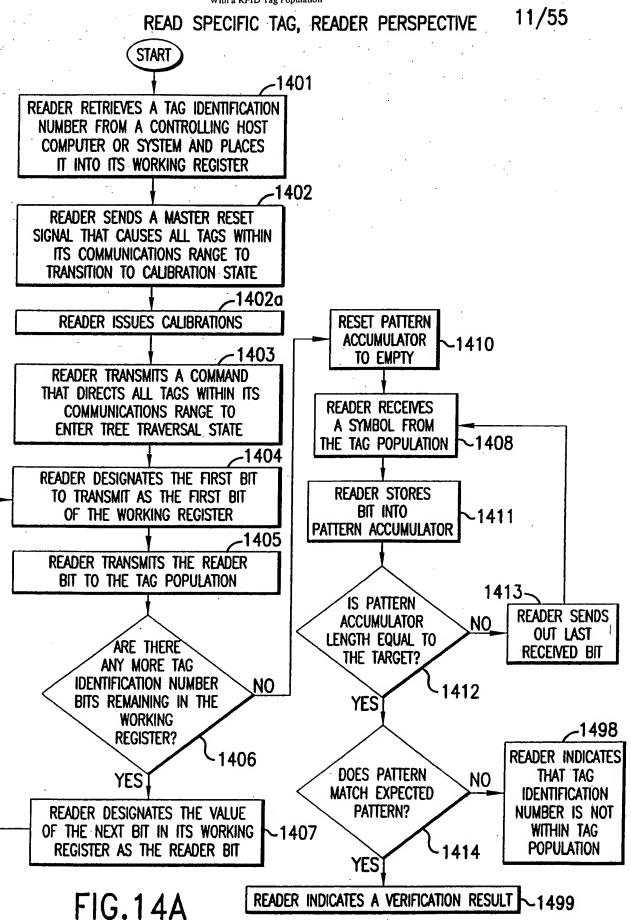
With a RFID Tag Population



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Inventors: SHANKS et al.

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For: Method, System and Apparatus for Communicating
With a RFID Tag Population

12/55 READ SPECIFIC TAG, ALT., READER PERSPECTIVE READER RETRIEVES A TAG IDENTIFICATION NUMBER FROM A CONTROLLING HOST COMPUTER OR SYSTEM -1401 AND PLACES IT INTO ITS WORKING REGISTER READER SENDS A MASTER RESET SIGNAL THAT CAUSES ALL TAGS WITHIN ITS COMMUNICATIONS 1402 RANGE TO TRANSITION TO CALIBRATION STATE READER ISSUES CALIBRATIONS -1402a READER TRANSMITS A COMMAND THAT DIRECTS -1403 ALL TAGS WITHIN ITS COMMUNICATIONS RANGE TO ENTER TREE TRAVERSAL STATE READER DESIGNATES THE FIRST BIT TO TRANSMIT AS -1404 THE FIRST BIT OF THE WORKING REGISTER READER TRANSMITS THE READER BIT TO THE TAG POPULATION 1405 READER RECEIVES A SYMBOL FROM THE TAG POPULATION 1408 WAS THE READER INDICATES THAT TAG READER BIT NO INDENTIFICATION NUMBER IS NOT RECEIVED DURING WITHIN TAG POPULATION STEP 1408? 1409 YES 1498 ARE THERE ANY MORE TAG IDENTIFICATION NO READER INDICATES A NUMBER BITS REMAINING VERIFICATION RESULT IN THE WORKING **REGISTER?** 1406 1499 YES READER DESIGNATES THE VALUE OF THE NEXT BIT IN ITS WORKING REGISTER AS 1407 FIG. 14B THE READER BIT

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#### READ ALL TAGS, READER PERSPECTIVES

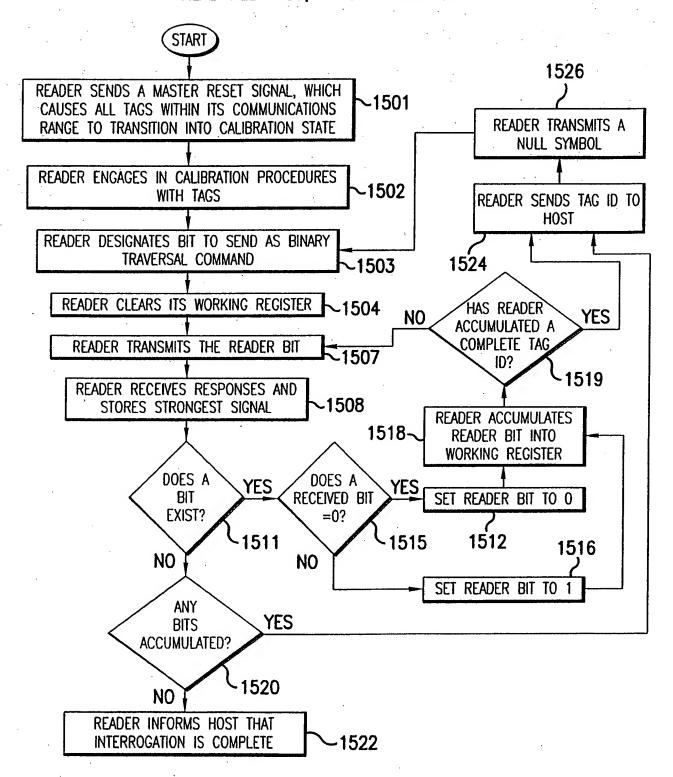
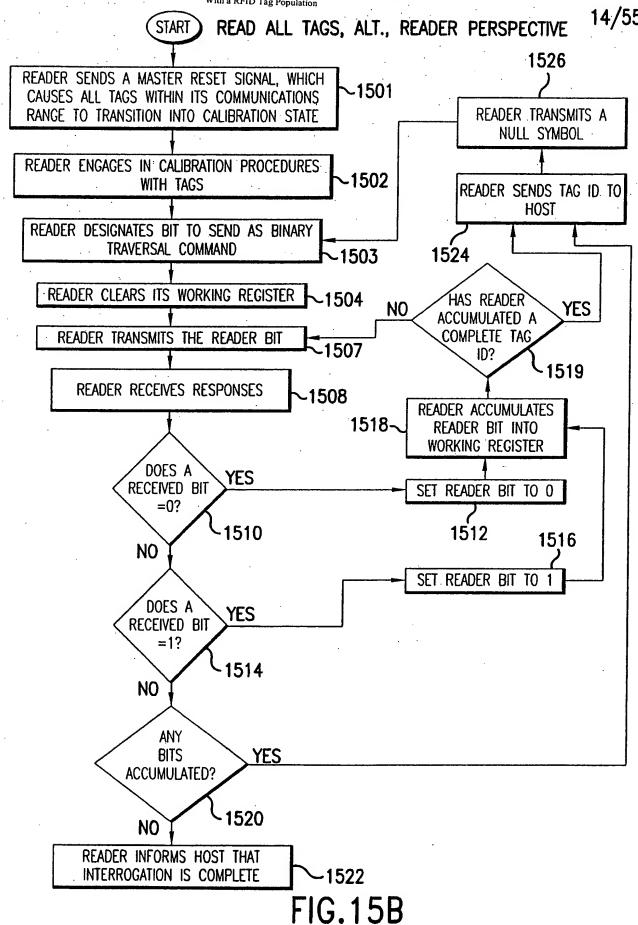


FIG.15A

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## BINARY TRAVERAL PATHS AND TREE FOR A 3-BIT TAG POPULATION

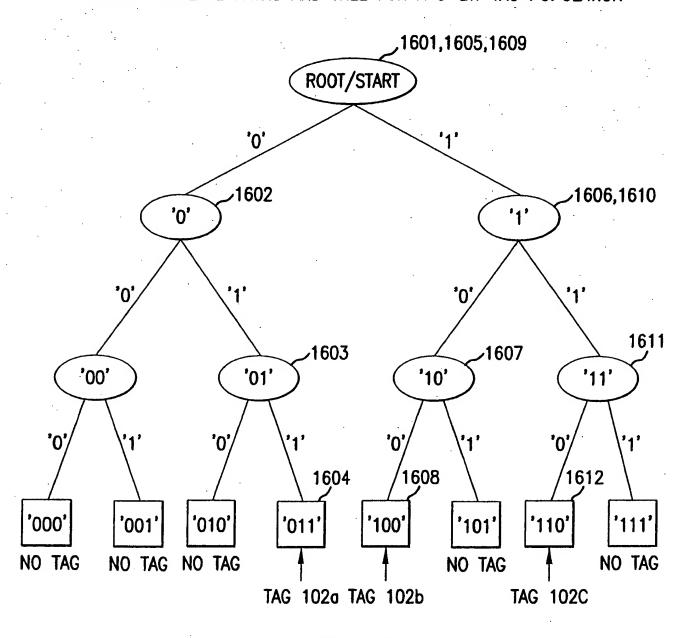


FIG. 16

Appl. No. 10/073,000; Filed: Feb 12, 2002 Dkt No. 1689.0260000; Group Unit: 2636 Inventors: SHANKS et al. Tel. No.: 202-371-2600 For: Method, System and Apparatus for Communicating With a RFID Tag Population 16/55 TAG IS IN DORMANT STATE 1702 TAG RECEIVES A MASTER RESET SIGNAL FROM THE READER -1704 TAG BECOMES SYNCHRONIZED WITH THE READER 1706 TAG RECEIVES A COMMAND FROM THE READER TO ENTER SUPERPOSITION 1708 STATE TAG DESIGNATES AN INITIAL BIT OF ITS **IDENTIFICATION NUMBER FOR** 1710 TRANSMISSION TO THE READER TAG RECEIVES A SYMBOL FROM THE READER 1712 IS THIS YES TAG RETURNS TO SYMBOL A NULL COMMAND STATE SYMBOL? 1714 NO 1720 DOES RECEIVED NO BIT MATCH DESIGNATED BIT? 1718 YES TAG SENDS DESIGNATED BIT -1719 TO READER TAG DESIGNATES A NEXT IDENTIFICATION 1722 FIG. 17A NUMBER BIT

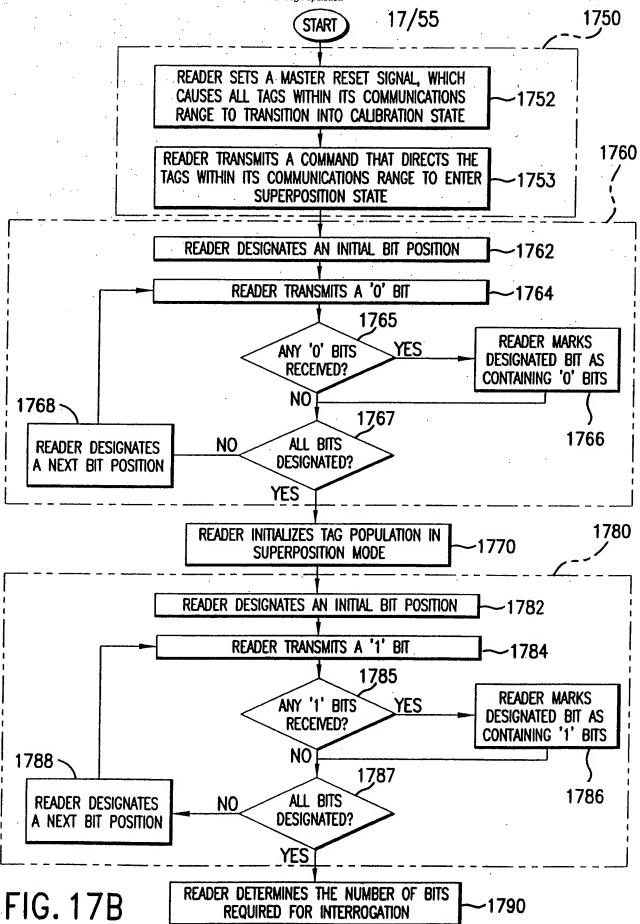
Replacement Sheet Sheet 16 of 55 Replacement Sheet Sheet 17 of 55

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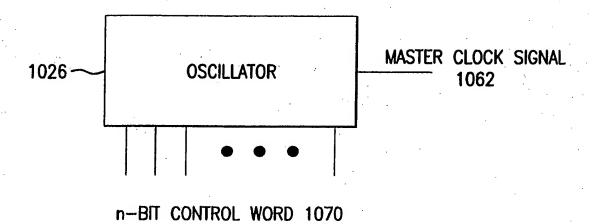


FIG. 18

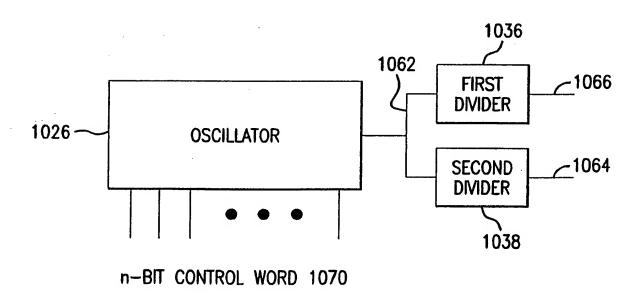


FIG. 19

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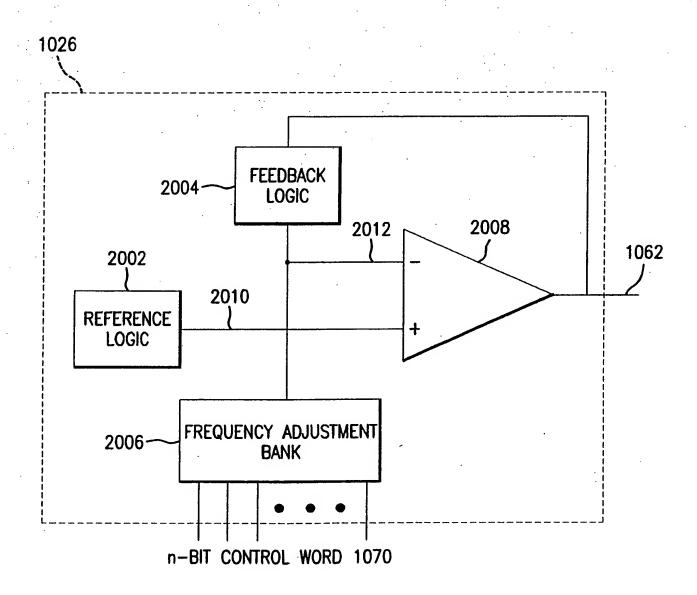


FIG. 20

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Inventors: SHANKS et al. Tel. No.: 202-371-2600

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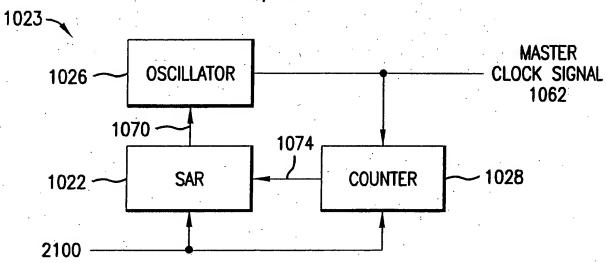
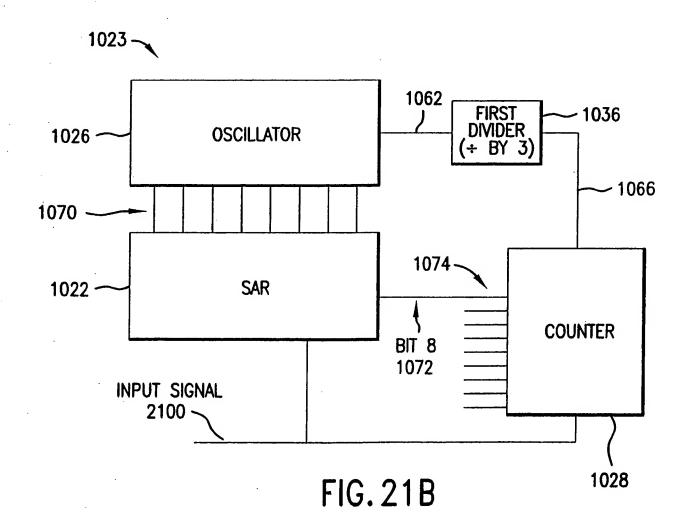


FIG. 21A



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Dkt No. 1689.0260000; Group Unit: 2636
Inventors: SHANKS et al.
Tel. No.: 202-371-2600
For: Method, System and Apparatus for Communicating
With a RFID Tag Population 21/55 302 1074 1070 SAR CONCEPTUAL IMPLEMENTATION OF SAR CALIBRATION 2008 FIG. 21C -2012 **FEEDBACK** ) | | | 2006 2110 图 2002 ပ္ပ PHASE RESET 2182

Replacement Sheet

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# PHYSICAL IMPLEMENTATION OF ADJUSTABLE CAPACITOR BANK

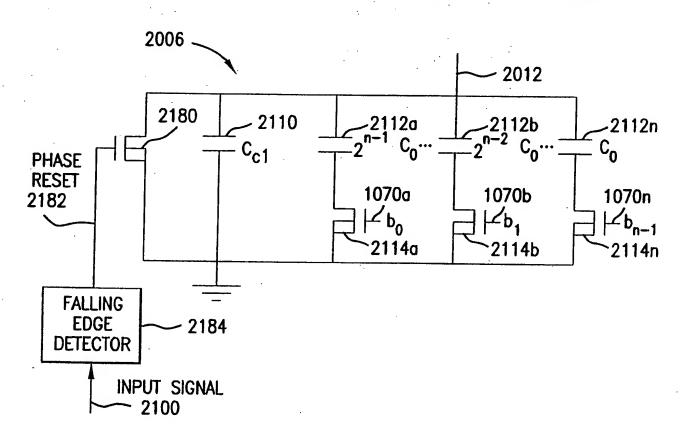


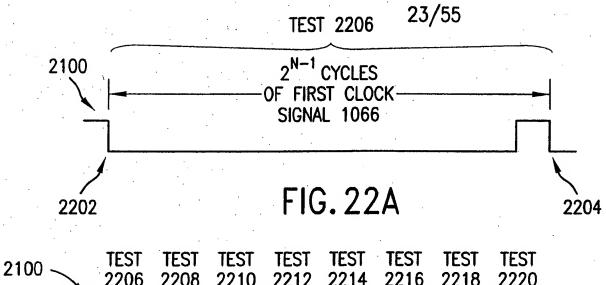
FIG. 21D

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Inventors: SHANKS et al. Tel. No.: 202-371-2600

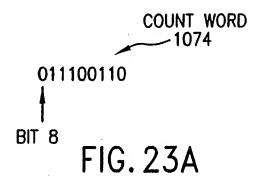
For: Method, System and Apparatus for Communicating

With a RFID Tag Population



2206 2212 2214 2216 2218 2208 2210 2220 TIME TIME TIME TIME TIME TIME TIME TIME TIME 2226 2228 2230 2202 2204 2222 2224 2232 2234

FIG. 22B



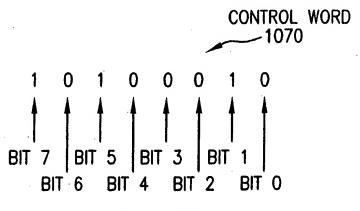


FIG. 23B

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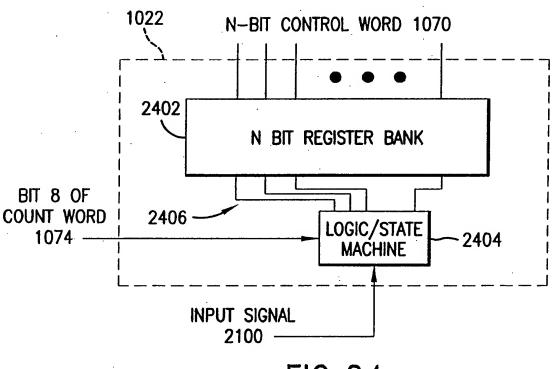


FIG. 24

Inventors: SHANKS et al. Tel. No.: 202-371-2600 For: Method, System and Apparatus for Communicating With a RFID Tag Population 25/55 2500 2502 A COUNT WORD IS INCREMENTED AFTER EACH CYCLE OF THE CLOCK SIGNAL THAT OCCURS DURING A CALIBRATION CYCLE OF THE INPUT SIGNAL 2504 THE OSCILLATOR FREQUENCY IS ADJUSTED BASED UPON THE COUNT WORD AFTER COMPLETION OF STEP 2502 FIG. 25A 2502 A COUNT WORD IS INCREMENTED AFTER EACH CYCLE OF THE CLOCK SIGNAL THAT OCCURS DURING A CALIBRATION CYCLE OF THE INPUT SIGNAL 2504 THE OSCILLATOR FREQUENCY IS ADJUSTED BASED UPON THE COUNT WORD AFTER COMPLETION OF STEP 2502 2506 THE COUNT WORD IS CLEARED 2508 STEPS (a)-(c) ARE REPEATED N TIMES FOR SUBSEQUENT CORRESPONDING CYCLES OF THE INPUT SIGNAL, WHEREIN N IS EQUAL TO THE NUMBER OF BITS OF THE CONTROL WORD

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FIG. 25B

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A COUNT WORD IS INCREMENTED AFTER EACH CYCLE OF THE CLOCK SIGNAL THAT OCCURS DURING A CALIBRATION CYCLE OF THE INPUT SIGNAL

THE OSCILLATOR FREQUENCY IS ADJUSTED BASED UPON THE COUNT WORD AFTER COMPLETION OF STEP 2502

EACH CALIBRATION CYCLE OF THE INPUT SIGNAL FOLLOWED WITH A SEPARATION CYCLE ON THE INPUT SIGNAL

FIG. 25C

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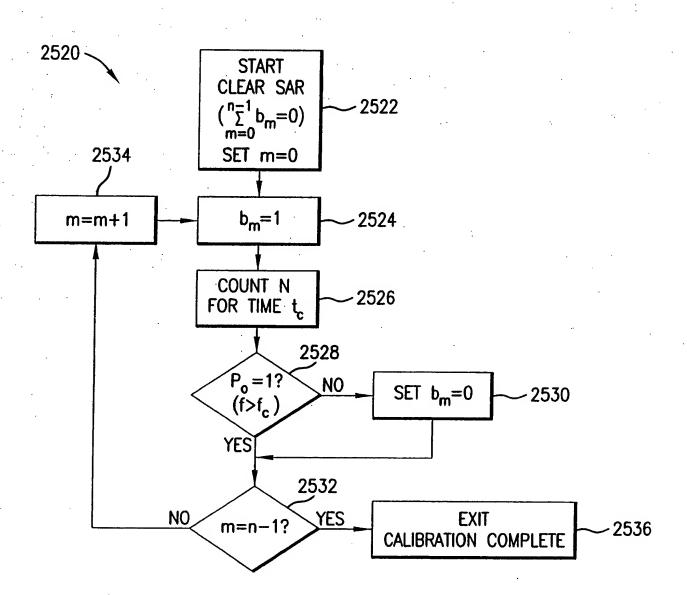


FIG. 25D

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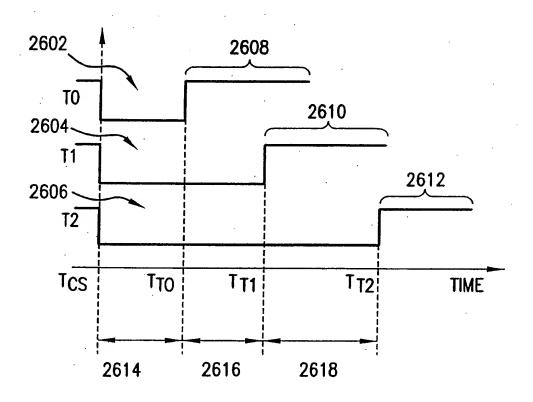
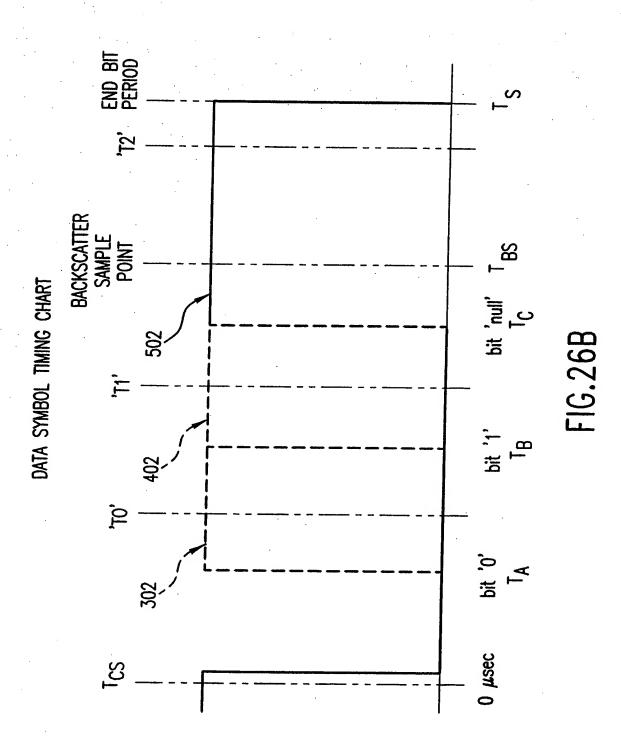


FIG.26A

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For: Method, System and Apparatus for Communicating With a RFID Tag Population

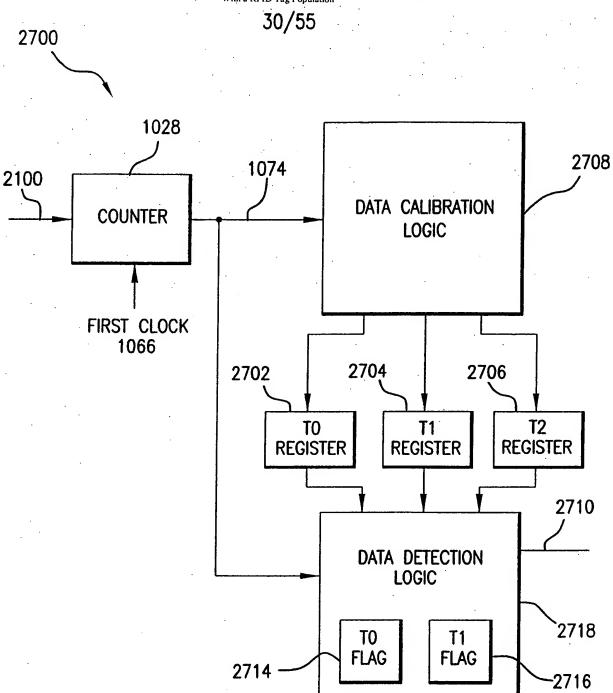


FIG.27

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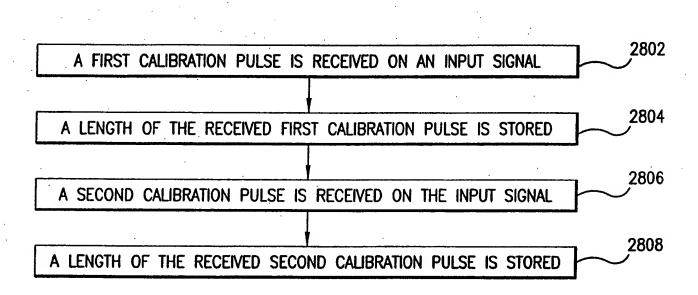


FIG.28A

Inventors: SHANKS et al. Tel. No.: 202-371-2600 For: Method, System and Apparatus for Communicating With a RFID Tag Population 2800 FROM FLOWCHART 2800 2810 A DATA SYMBOL HAVING A PULSE PORTION IS RECEIVED ON THE INPUT SIGNAL, WHEREIN THE PULSE PORTION HAS A LENGTH 2812 A FIRST FLAG IS SET IF THE LENGTH OF THE PULSE PORTION IS GREATER THAN OR EQUAL TO THE STORED LENGTH OF THE FIRST CALIBRATION PULSE 2814. A SECOND FLAG IS SET IF THE LENGTH OF THE PULSE PORTION IS GREATER THAN OR EQUAL TO THE STORED LENGTH OF THE SECOND CALIBRATION PULSE 2816, THE DATA SYMBOL IS DETERMINED TO BE A FIRST LOGICAL VALUE IF THE FIRST FLAG IS NOT SET DURING STEP 2812 2818. THE DATA SYMBOL IS DETERMINED TO BE A SECOND LOGICAL VALUE IF THE FIRST FLAG IS SET AND THE SECOND FLAG IS NOT SET 2820. THE DATA SYMBOL IS DETERMINED TO BE A THIRD LOGICAL VALUE IF THE FIRST FLAG IS SET AND THE SECOND FLAG IS SET 2822 THE FIRST LOGICAL VALUE IS DEFINED AS A LOGICAL 1 BIT 2824. THE SECOND LOGICAL VALUE IS DEFINED AS A LOGICAL O BIT 2826 THE THIRD LOGICAL VALUE IS DEFINED AS A LOGICAL NULL BIT

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FIG.28B

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Inventors: SHANKS et al.
Tel. No.: 202-371-2600
For: Method, System and Apparatus for Communicating
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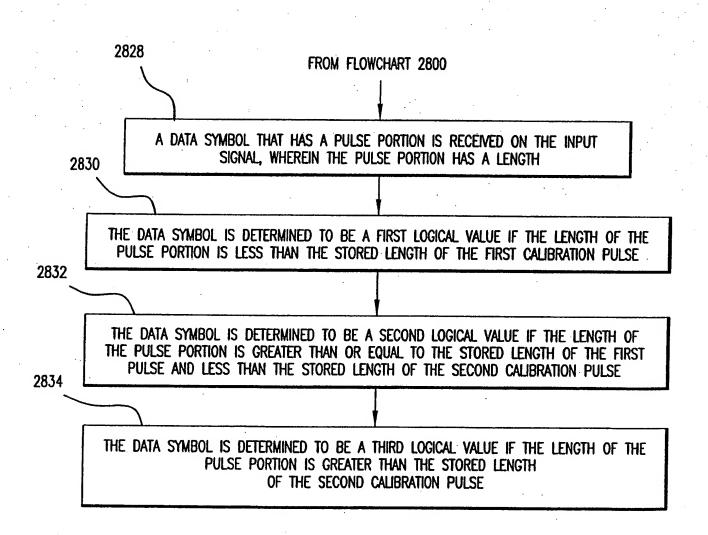


FIG.28C

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Inventors: SHANKS et al.
Tel. No.: 202-371-2600
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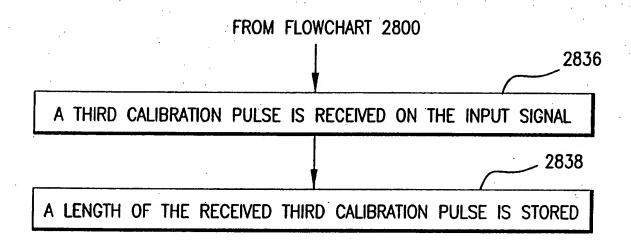


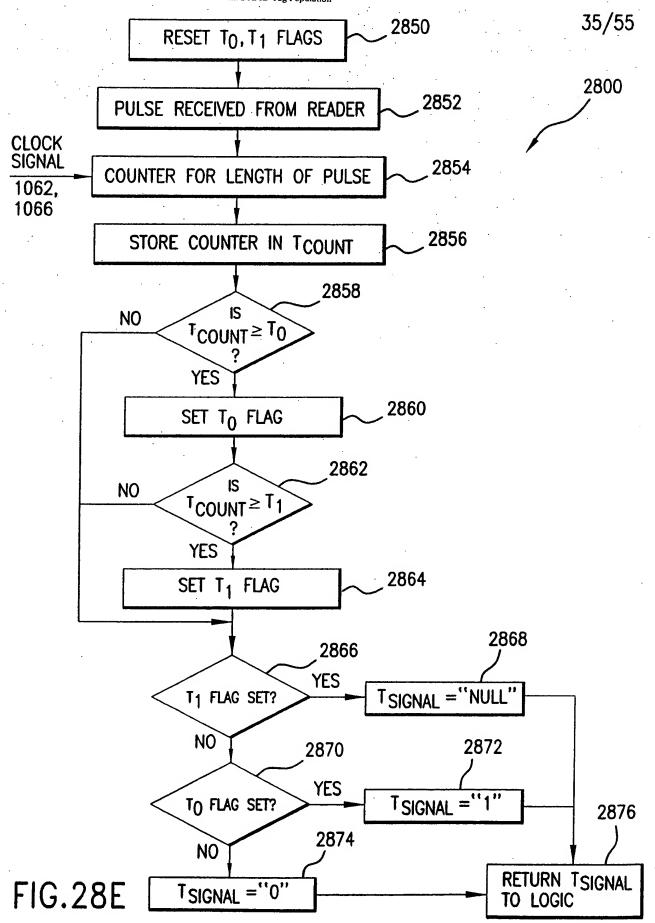
FIG.28D

Replacement Sheet

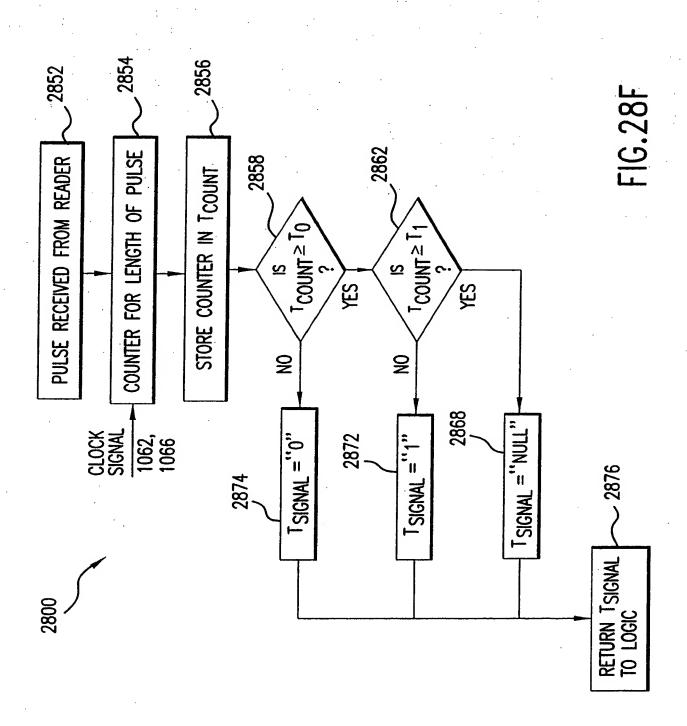
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Inventors: SHANKS et al.

Tel. No.: 202-371-2600

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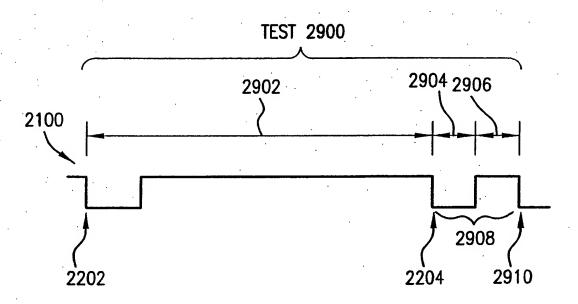


FIG.29

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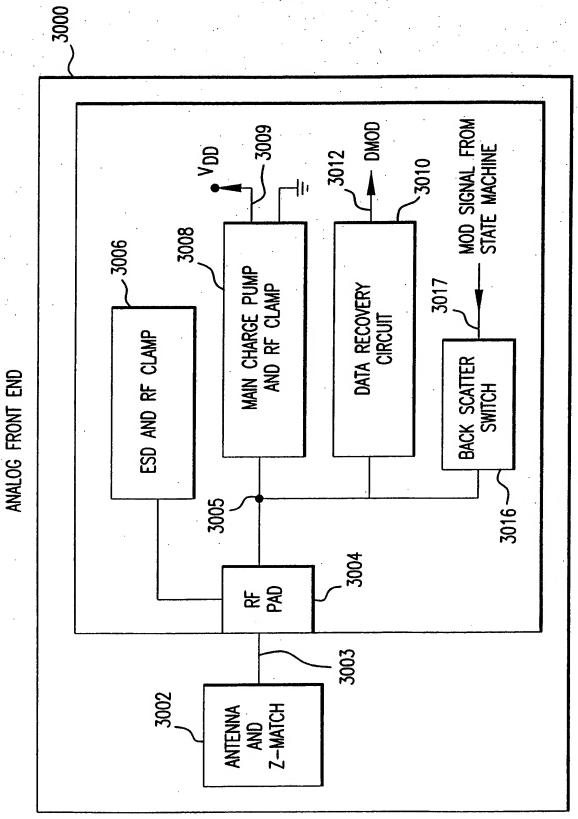
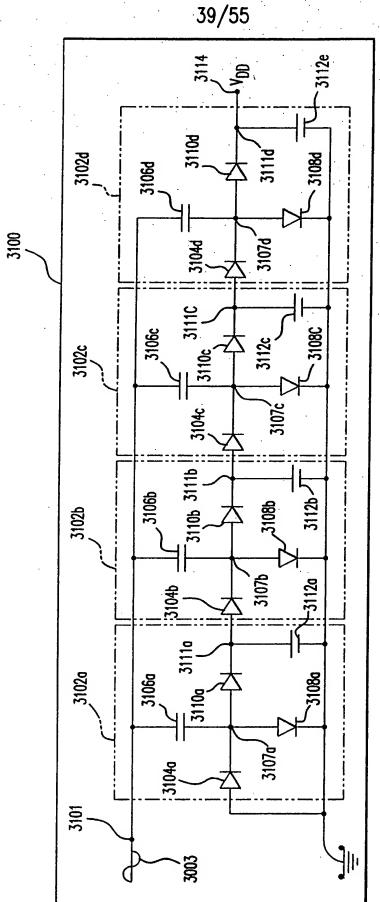


FIG.30

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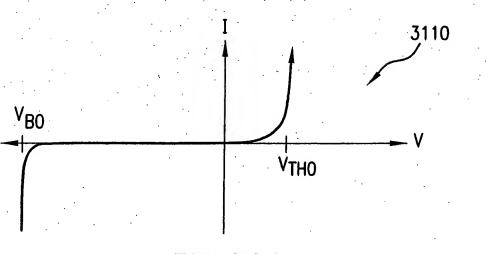


FIG.32A

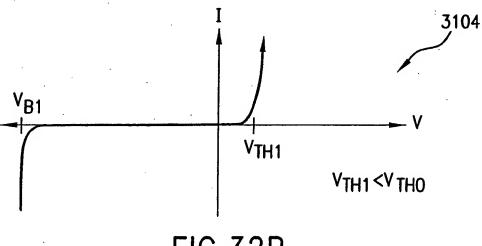


FIG.32B

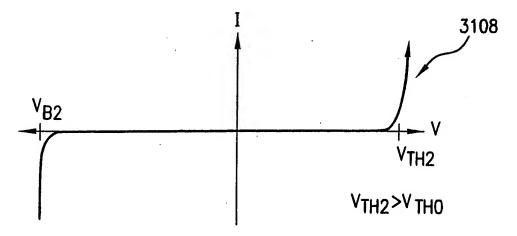


FIG.32C

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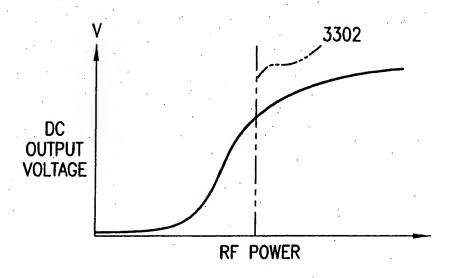


FIG.33A

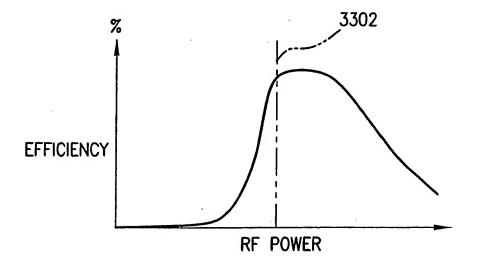


FIG.33B

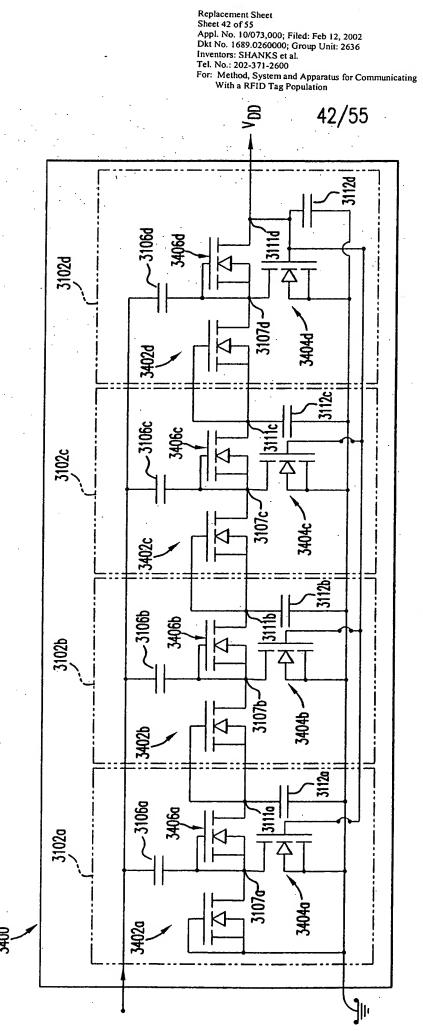
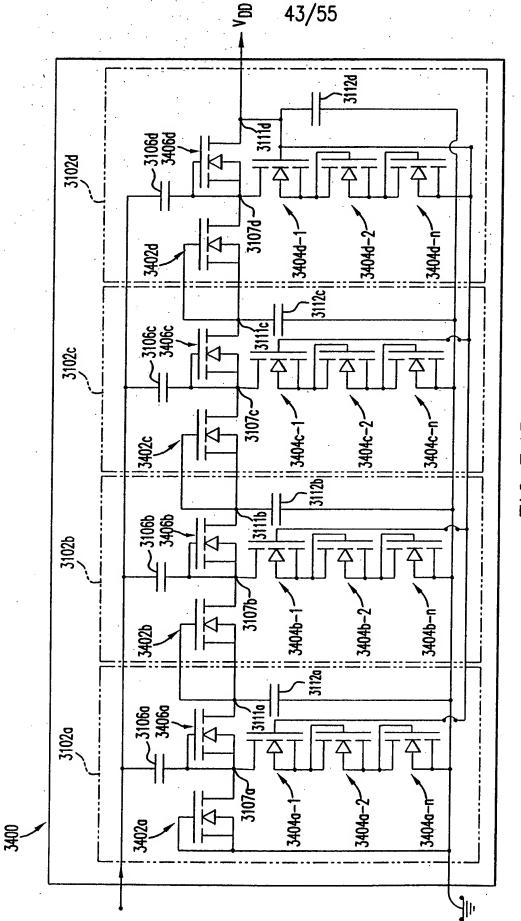


FIG.34A

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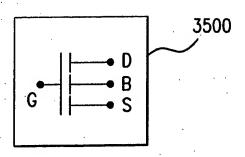


FIG.35A

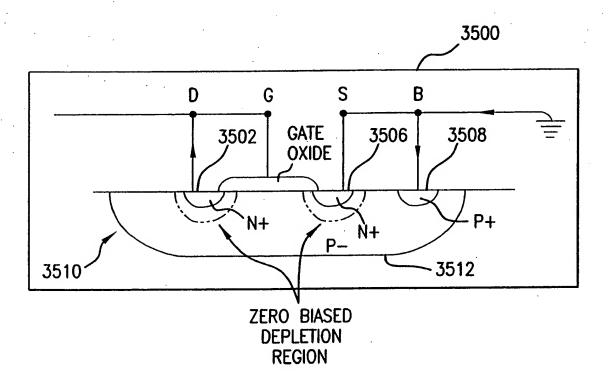


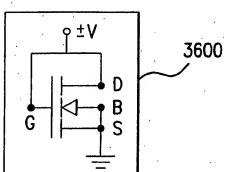
FIG.35B

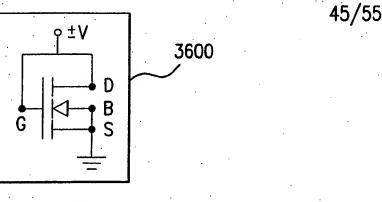
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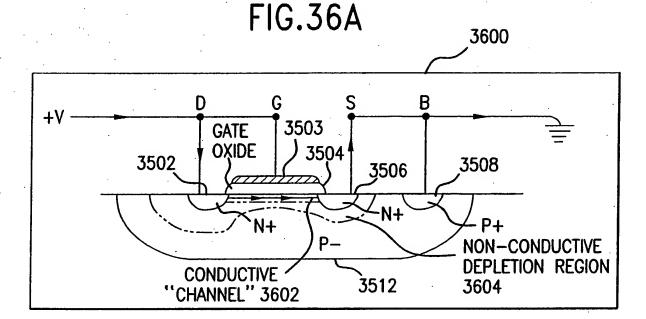


FIG.36B

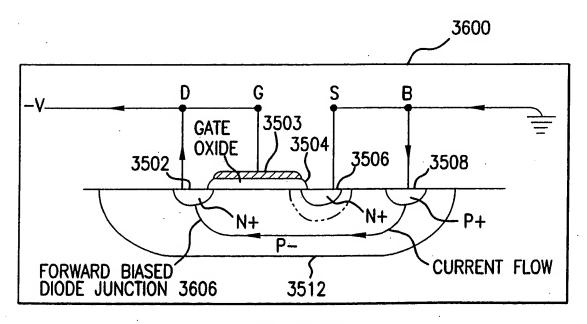


FIG.36C

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With a RFID Tag Population 46/55 o ±V 3700 FIG.37A 3700 CONDUCTIVE "CHANNEL" INVERSION 3702 В 3503 **GATE** OXIDE 3502 3508 3506 P+ N+ 3706 P-FORWARD BIASED DIODE JUNCTION 3704 3512 FIG.37B 3700 D 3503 **GATE** OXIDE 3504 3506 3502 3508 3708 P-3512

FIG.37C

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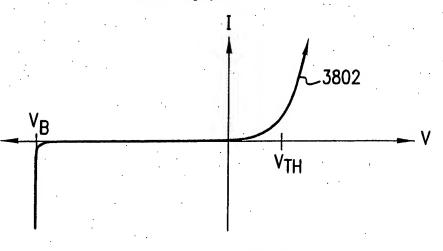


FIG.38A

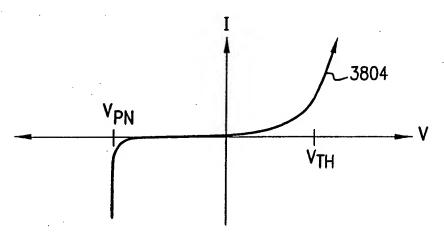


FIG.38B

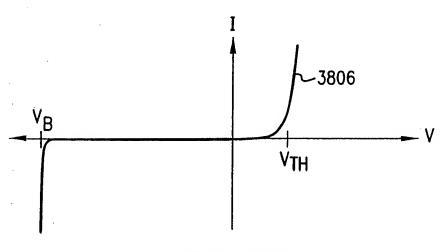


FIG.38C

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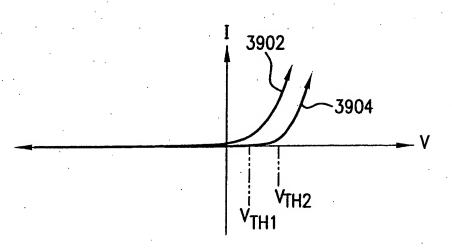


FIG.39

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With a RFID Tag Population 49/55 31126 1

FIG.40A

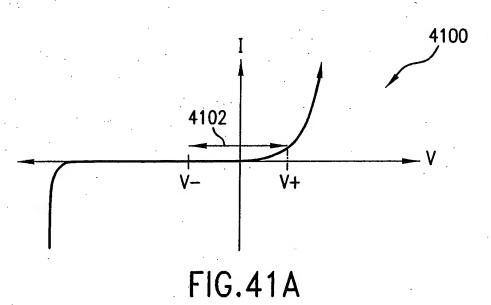
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Inventors: SHANKS et al.
Tel. No.: 202-371-2600 For: Method, System and Apparatus for Communicating With a RFID Tag Population 50/55 3107d-3112b 31120

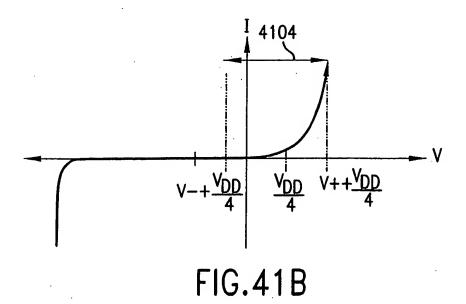
3102c

FIG. 40B

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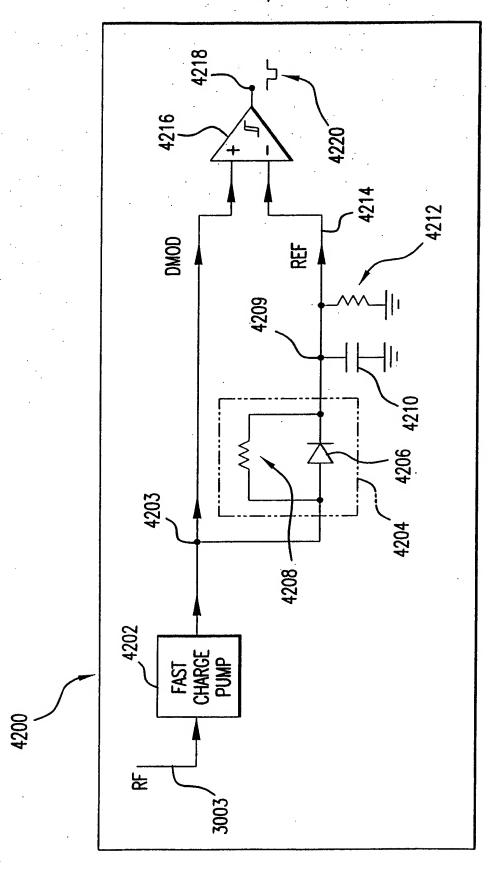


FIG.42

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Tel. No.: 202-371-2600
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With a RFID Tag Population

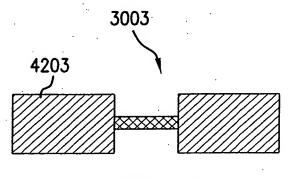


FIG.43A

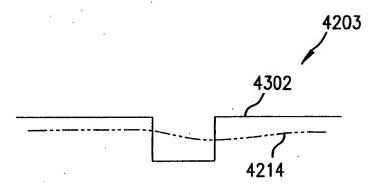


FIG.43B

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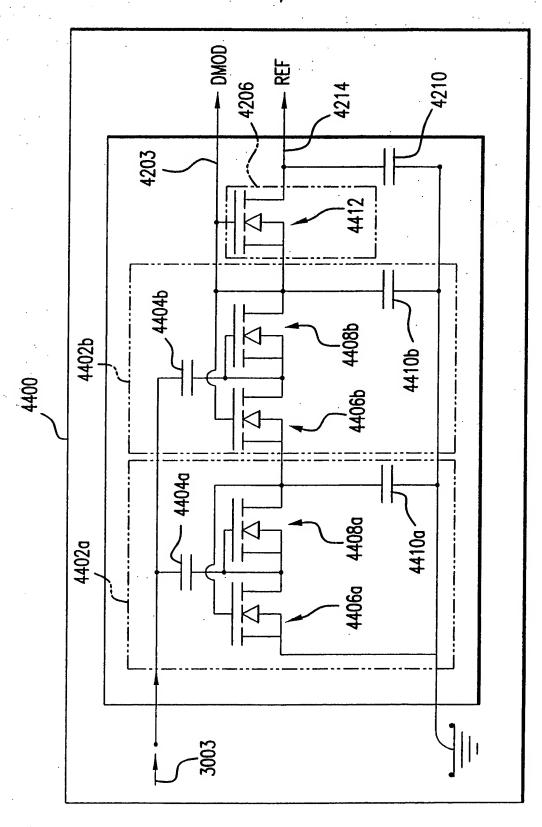


FIG.44

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